

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1 (currently amended): A method ~~of providing location-based services for a call in a packet-switched wireless communications network having at least one user equipment, the method comprising the steps of:~~

~~sending-receiving~~ a first request to setup a communication channel for a call from the a user equipment ~~to in~~ a first network element, said first request having an indication that the communication channel will be used for transferring a call which requires location-based services;

~~receiving the first request in a first network element; and~~

selecting a second network element in accordance with said indication,
wherein traffic on said communication channel is filtered according to filtering information set by said first network element or said second network element.

Claim 2 (currently amended): ~~A-The~~ method as recited in claim 1, further comprising ~~the steps of:~~

determining an identity of an entity in said second network element; and
forwarding said identity to the user equipment.

Claim 3 (currently amended): The method as recited in claim 2, further comprising ~~the steps of:~~

returning an accept message from said first network element to said user equipment, said accept message acknowledging said first request; and
providing an address of the entity to the user equipment.

Claim 4 (currently amended): The method as recited in claim 2 ~~or 3~~, further comprising ~~the step of~~ transferring said call to said entity.

Claims 5-6 (canceled)

Claim 7 (currently amended): The method recited in claim 14, wherein the first network element sends a second request to start location measuring to a location calculating entity when receiving said first request from said user equipment.

Claim 8 (currently amended): The method recited in claim 7, wherein the location calculating entity sends the measured location information to the first network element which forwards it further to a gateway mobile location center (GMLC).

Claims 9-10 (canceled)

Claim 11 (previously presented): The method recited in claim 1, wherein said second network element is a Gateway GPRS Support Node (GGSN).

Claim 12 (currently amended): The method recited in claim 1, wherein said first network element is a Serving General Packet Radio Service (GPRS) Support Node (SGSN).

Claim 13 (previously presented): The method recited in claim 4, wherein said second network element sets a traffic flow template (TFT) as filtering information in response to said first request to setup said communication channel.

Claim 14 (currently amended): The method recited in claim 4~~1~~, wherein a parameter in said first request is used to indicate that said communication channel will be used for transferring an emergency call.

Claim 15 (previously presented): The method recited in claim 14, wherein said parameter in said first request is the Access Point Name (APN).

Claims 16-19 (canceled)

Claim 20 (previously presented): The method recited in claim 4, wherein said user equipment sends location information to said entity.

Claim 21 (original): The method of claim 20, wherein said location information is Service Area Identification (SAI), Routing Area Identity (RAI), Cell-ID, coordinate information or any combination of these.

Claim 22 (currently amended): The method recited in claim 20 wherein said entity comprises an entity handling emergency calls.

Claim 23 (currently amended): The method recited in claim 22, wherein said entity handling said emergency calls ~~may request~~ location information from ~~the a gateway mobile location center (GMLC).~~

Claim 24 (previously presented): The method recited in claim 7 wherein said location calculating entity is a Radio Network Controller (RNC).

Claims 25-28 (canceled)

Claim 29 (currently amended): A network element ~~in a packet-switched wireless communication network, said network element~~ configured to carry out a method comprising the steps of:

receiving a request to setup a communication channel from a user equipment, said request having an indication that the communication channel will be used for transferring a call which requires location-based services; and

selecting another network element in accordance with said indication,

wherein traffic on said communication channel is filtered according to filtering information ~~set by said network element or said another network element~~ defined according to said indication.

Claims 30-40 (canceled)

Claim 41 (currently amended): A method ~~of providing location-based services for a call from a first network element in a packet-switched wireless communications network; the method comprising the steps of:~~

providing location information for ~~the said~~a first network element from a second network element in a radio access network;

sending a first ~~a~~-request to setup a call from ~~the said~~ first network element to a third network element, said request including ~~the said~~ location information for the first network element; and

selecting an entity handling emergency calls in ~~the a~~a packet switched network based at least in part, on ~~the said~~ location information included in ~~the said~~ first request.

Claims 42-48 (canceled)

Claim 49 (currently amended): The method recited in claim 41, further comprising ~~the step of~~ transferring said emergency call to said selected entity.

Claim 50 (currently amended): ~~The a method of providing location-based services for a call from a first network element in a packet-switched wireless communications network; the method comprising the steps of:~~

providing location information for ~~the said~~a first network element from a second network element in a radio access network;

sending a first ~~a~~-request to setup a call from ~~the said~~ first network element to a third network element, said first request including ~~the said~~ location information for the first network element,

wherein ~~the a~~a fourth network element indicates to the radio access network to start a positioning method in order to get a location estimate in response to receiving ~~said a~~a second request from said first network element.

Claim 51 (canceled)

Claim 52 (previously presented): The method recited in claim 50, wherein the location estimate obtained by said positioning method is provided to a Gateway Mobile Location Centre (GMLC).

Claim 53 (currently amended): The method recited in claim ~~51~~52, wherein said selected entity handling emergency calls obtains said location estimate from said Gateway Mobile Location Centre (GMLC).

Claim 54 (canceled)

Claim 55 (previously presented): The method recited in claim 53, wherein the call is identified using an assigned phone number when said selected entity handling emergency calls obtains said location estimate from said Gateway Mobile Location Center (GMLC).

Claim 56 (previously presented): The method recited in claim 50, wherein the positioning method is performed in the first network element.

Claim 57-60 (canceled)

Claim 61 (currently amended): A ~~packet-switched wireless communication network system~~ comprising:

a user equipment (UE);

a radio access network (RAN); and

a first network element in the radio access network, said first network element providing location information for said user equipment; and

a second network element in ~~the a~~ packet switched network, said second network element receiving a request from the user equipment to set up a call to said first network element, the request including said location information for the user equipment.

Claim 62 (currently amended): ~~A packet-switched wireless communication network~~The system according to claim 61, wherein said second network element is a call state control function (CSCF) or a Public Safety Answering Point (PSAP).

Claim 63 (currently amended): ~~A packet-switched wireless communication network~~The system according to claim 62, wherein said first network element receives said a Serving Area ID and forwards said Service Area ID to said the user equipment.

Claim 64 (currently amended): ~~A packet-switched wireless communication network~~The system according to claim 63, further comprising a call control entity receiving said Service Area ID in an emergency call setup request from the user equipment.

Claim 65 (currently amended): ~~A packet-switched wireless communication network~~The system according to claim 64, wherein said call control entity has a database identifying a plurality of Public Safety Answering Points (PSAPS) and corresponding said plurality of Public Safety Answering Point with Service Area IDs.

Claim 66 (currently amended): ~~A packet-switched wireless communication network~~The system according to claim 64, wherein said call control entity selects a Public Safety Answering Point based, at least in part, on said Service Area ID.

Claim 67 (canceled)

Claim 68 (new): The method as recited in claim 3, further comprising transferring said call to said entity.

Claim 69 (new): The method recited in claim 14, wherein said parameter is said indication.

Claim 70 (new) : An apparatus configured to:

receive a request to setup a communication channel from a user equipment and a network element, said request having an indication that the communication channel will be used for transferring a call which requires location-based services, said apparatus being chosen to receive said request in accordance with said indication; and

filter traffic on said communication channel according to filtering information defined according to said indication.

Claim 71 (new): The apparatus of claim 70, wherein the apparatus is further configured to determine an identity of an entity handling emergency calls based on said indication.